

Data File : VL032502.D
Acq On : 11 Sep 2018 11:04
Operator : SY/AP
Sample : 4820-06DL2 40X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
253-BERRYDL

Quant Time: Sep 12 05:37:23 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL083118AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31 21:33:46 2018
QLast Update : Fri Aug 31 21:33:46 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.80	49	1364817	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.33	114	3082142	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.28	117	3082485	10.00	ppbv	-0.01

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.62 95 2432684 10.63 ppbv -0.02
Spiked Amount 10.000 Range 65 - 135 Recovery = 106.30%

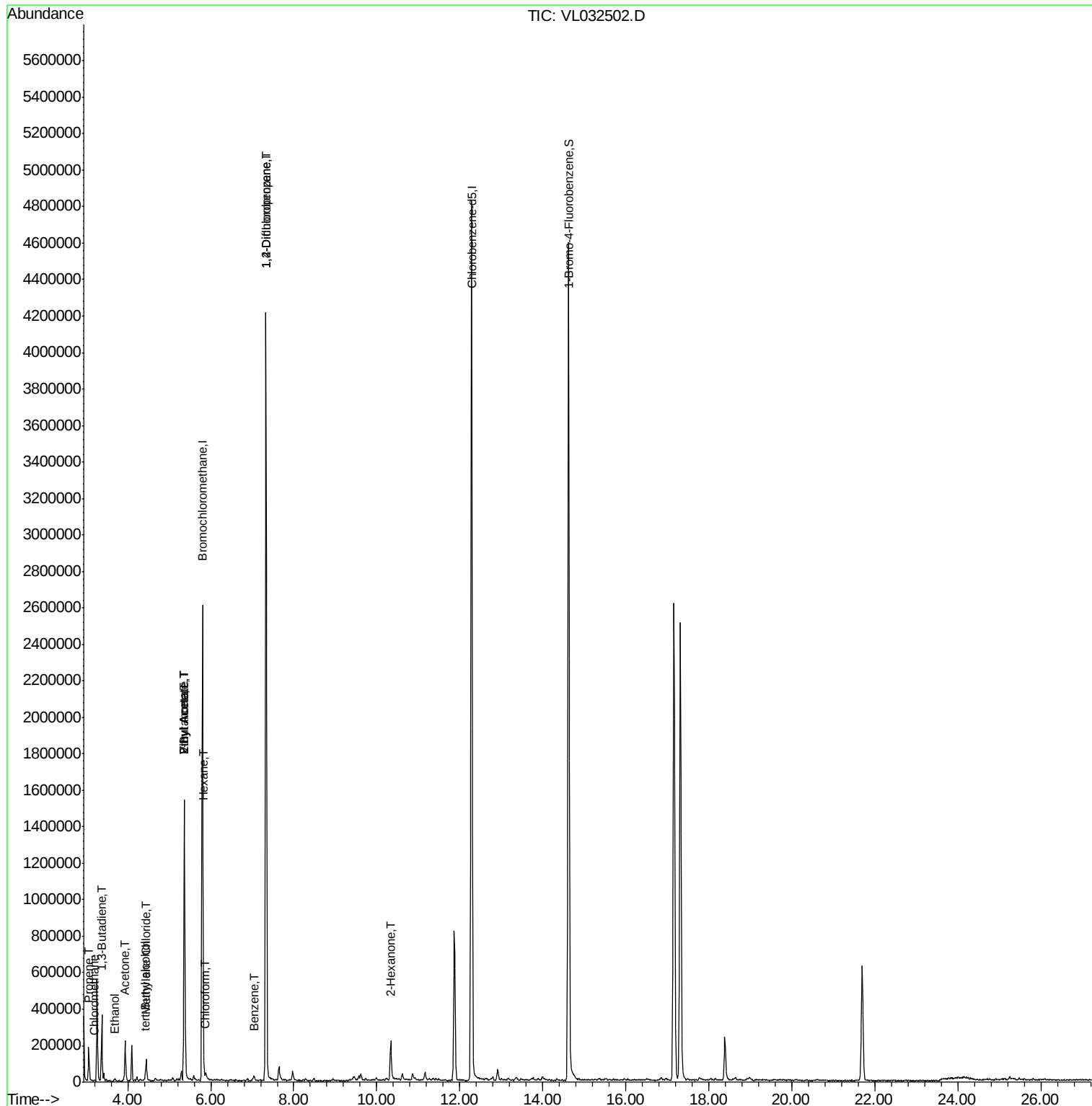
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Chloromethane	3.20	50	2405	0.032	ppbv #	61
9) Propene	3.06	41	75097	1.507	ppbv	95
13) Ethanol	3.69	45	9284	0.598	ppbv	82
15) Acetone	3.93	43	205595	1.673	ppbv #	76
16) 1,3-Butadiene	3.37	39	90182	1.559	ppbv #	10
17) tert-Butyl alcohol	4.41	59	3371	0.178	ppbv #	100
20) Methylene Chloride	4.44	84	36410	0.777	ppbv	95
23) Vinyl Acetate	5.36	43	1833345	8.999	ppbv #	88
25) Ethyl Acetate	5.36	43	1833345	6.317	ppbv #	76
26) Hexane	5.82	57	13841	0.107	ppbv #	1
29) Chloroform	5.88	83	15386	0.078	ppbv	86
34) 2-Butanone	5.36	43	1833345	8.955	ppbv	99
36) Benzene	7.04	78	15029	0.057	ppbv #	92
39) 1,2-Dichloropropane	7.33	63	824160	7.344	ppbv #	26
51) 2-Hexanone	10.34	43	188632	0.950	ppbv #	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.80 min Scan# 890

Delta R.T. -0.01 min

Lab File: VL032502.D

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Instrument :

MSVOA_L

ClientSampleId :

253-BERRYDL

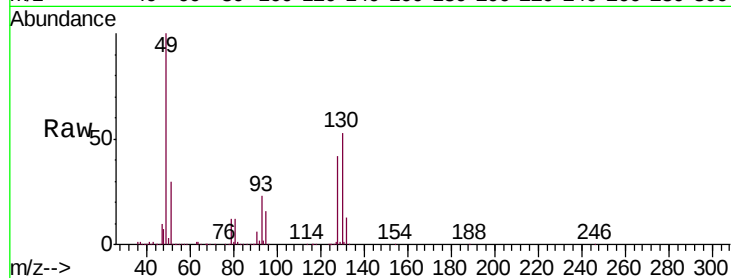
Tgt Ion: 49 Resp: 1364817

Ion Ratio Lower Upper

49 100

128 42.2 20.7 62.1

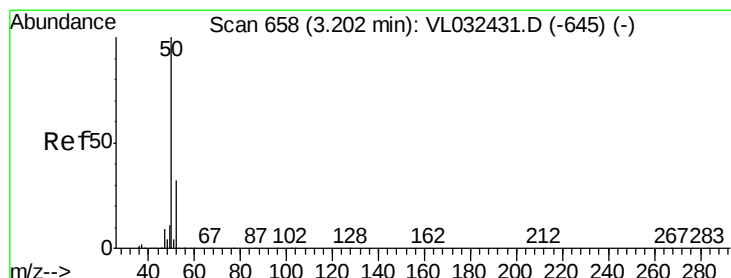
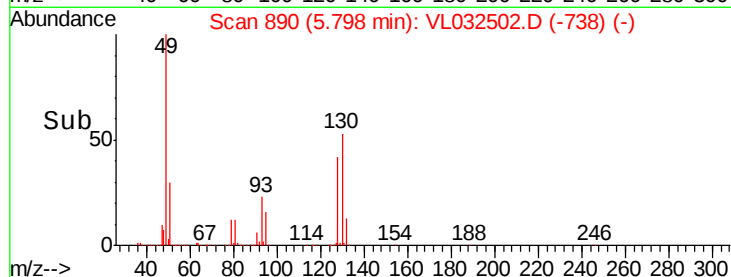
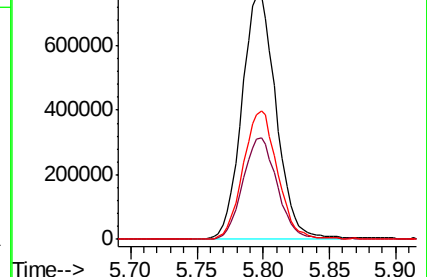
130 53.2 26.6 79.7



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#4

Chloromethane

Concen: 0.032 ppbv

RT: 3.20 min Scan# 82

Delta R.T. -0.00 min

Lab File: VL032502.D

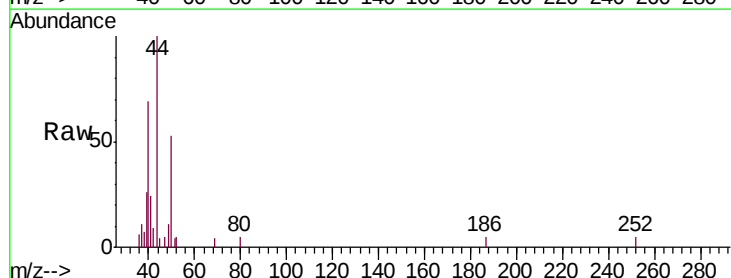
Acq: 11 Sep 2018 11:04

Tgt Ion: 50 Resp: 2405

Ion Ratio Lower Upper

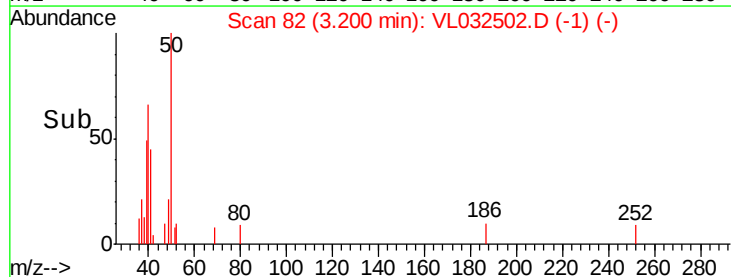
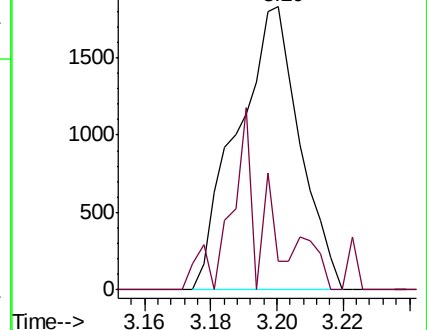
50 100

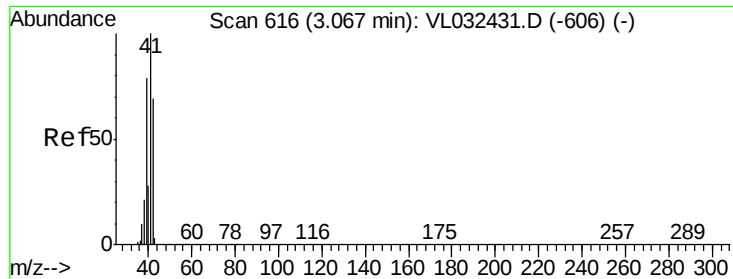
52 10.2 25.6 38.4#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 1.507 ppbv

RT: 3.06 min Scan# 39

Delta R.T. -0.01 min

Lab File: VL032502.D

Acq: 11 Sep 2018 11:04

Instrument :

MSVOA_L

ClientSampleId :

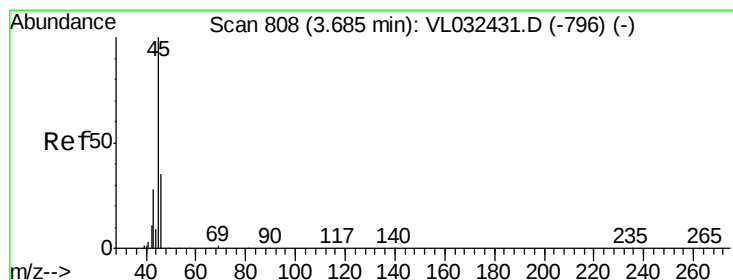
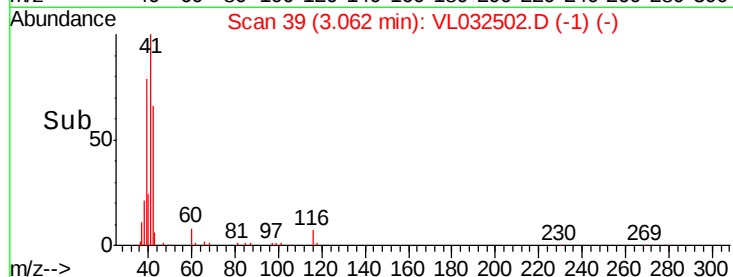
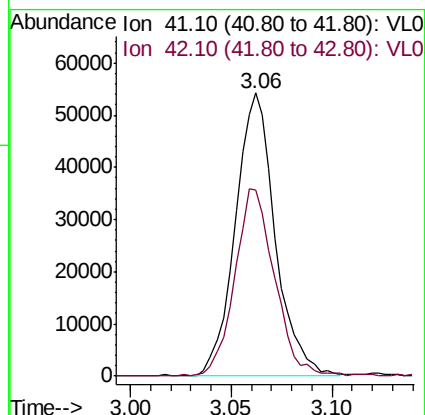
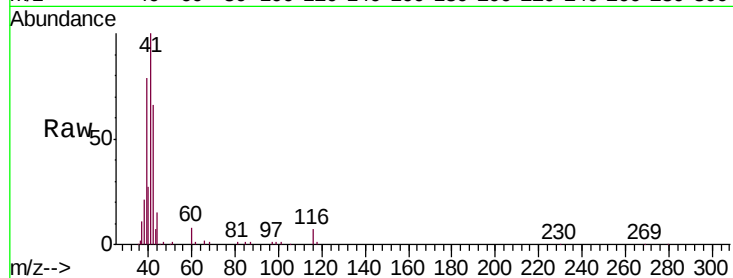
253-BERRYDL

Tgt Ion: 41 Resp: 75097

Ion Ratio Lower Upper

41 100

42 66.7 56.6 84.8



#13

Ethanol

Concen: 0.598 ppbv

RT: 3.69 min Scan# 234

Delta R.T. 0.00 min

Lab File: VL032502.D

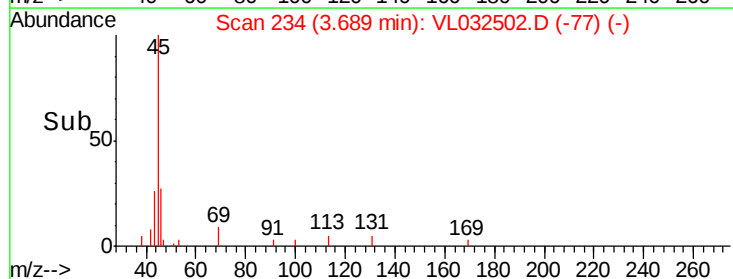
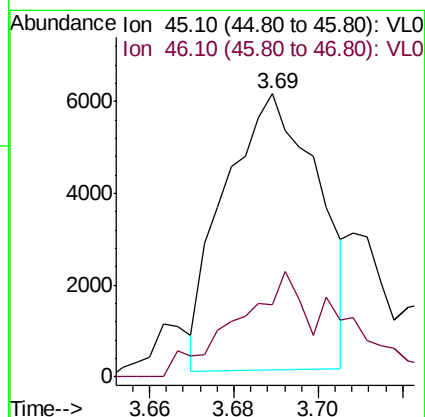
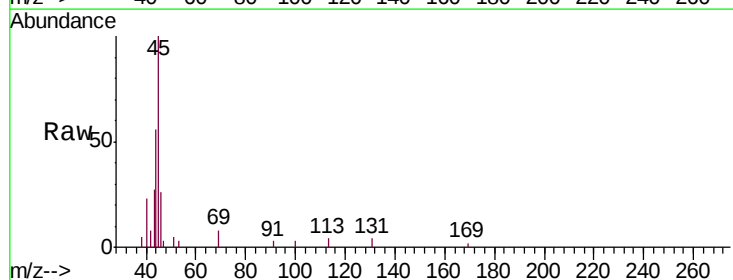
Acq: 11 Sep 2018 11:04

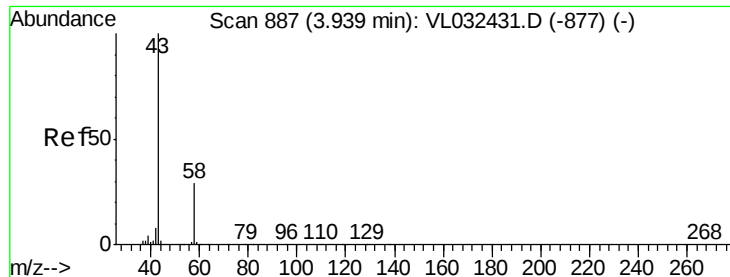
Tgt Ion: 45 Resp: 9284

Ion Ratio Lower Upper

45 100

46 45.8 14.2 56.8





#15

Acetone

Concen: 1.673 ppbv

RT: 3.93 min Scan# 310

Delta R.T. -0.01 min

Lab File: VL032502.D

Acq: 11 Sep 2018 11:04

Instrument :

MSVOA_L

ClientSampleId :

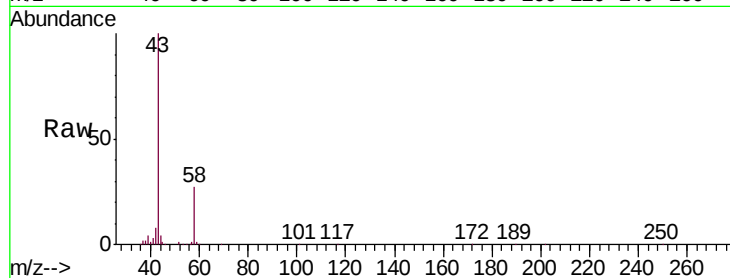
253-BERRYDL

Tgt Ion: 43 Resp: 205595

Ion Ratio Lower Upper

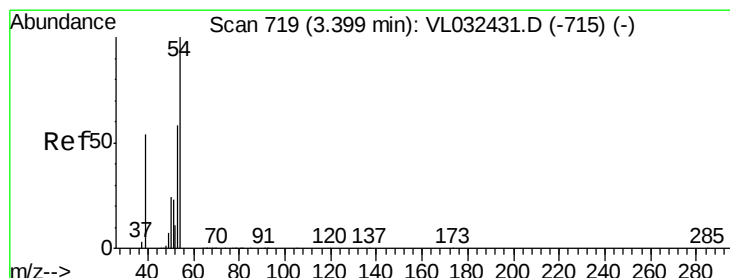
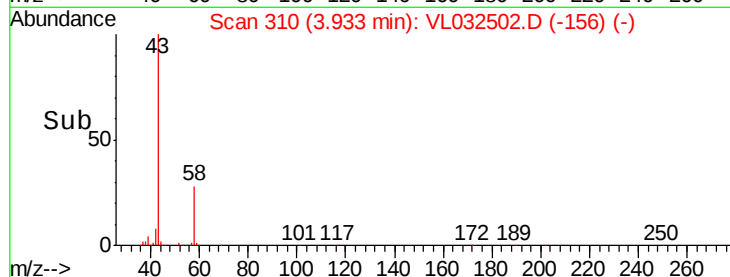
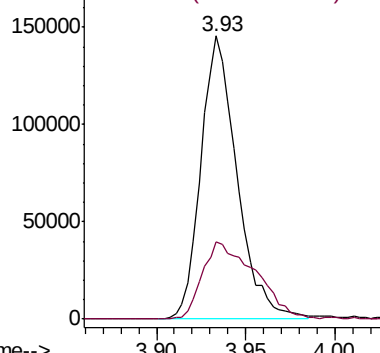
43 100

58 40.8 22.6 33.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 1.559 ppbv

RT: 3.37 min Scan# 135

Delta R.T. -0.03 min

Lab File: VL032502.D

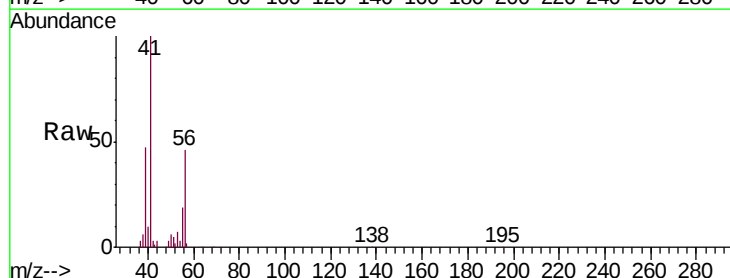
Acq: 11 Sep 2018 11:04

Tgt Ion: 39 Resp: 90182

Ion Ratio Lower Upper

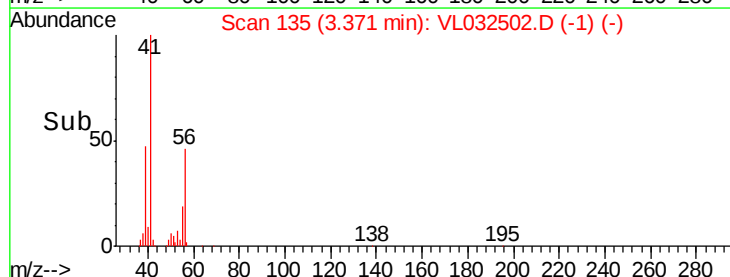
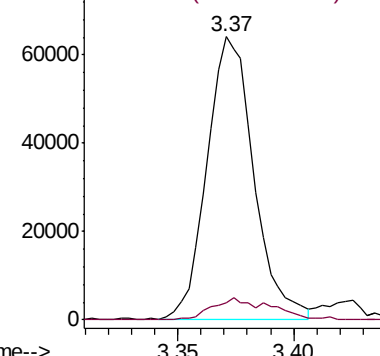
39 100

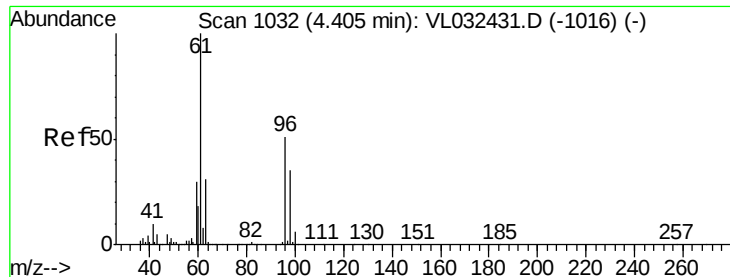
54 10.0 80.8 121.2#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0



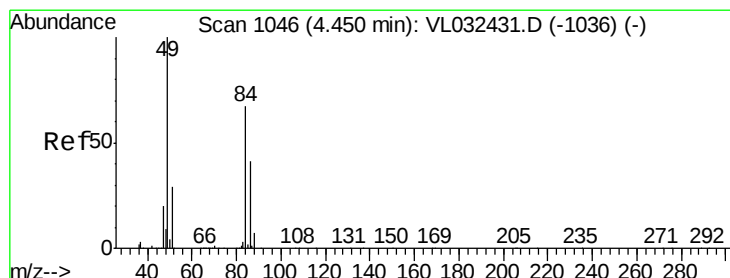
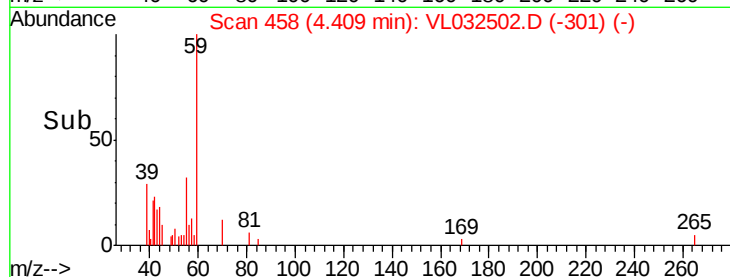
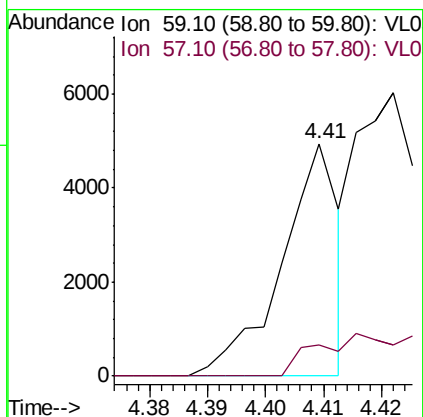
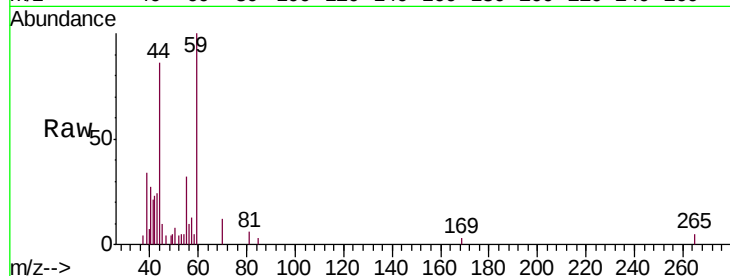


#17

tert-Butyl alcohol
Concen: 0.178 ppbv
RT: 4.41 min Scan# 458
Delta R.T. 0.00 min
Lab File: VL032502.D
Acq: 11 Sep 2018 11:04

Instrument :
MSVOA_L
ClientSampleId :
253-BERRYDL

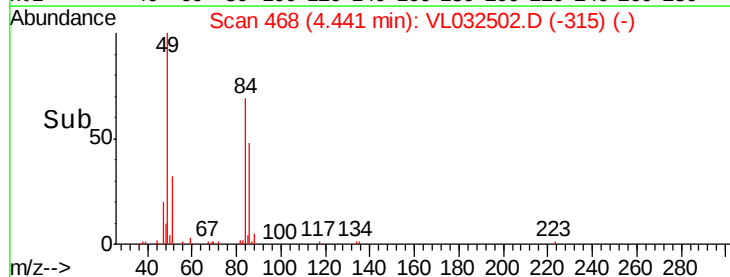
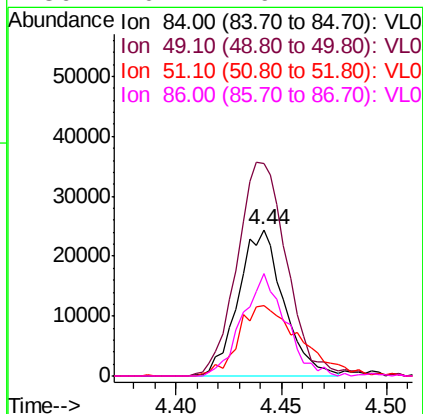
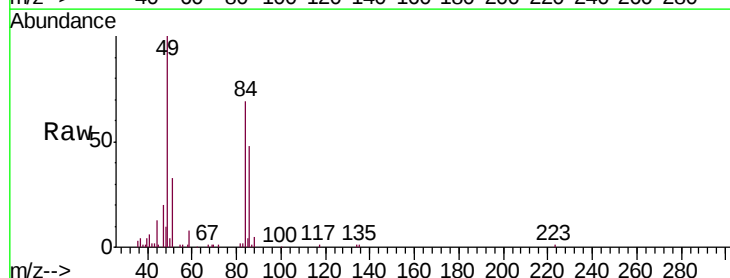
Tgt Ion: 59 Resp: 3371
Ion Ratio Lower Upper
59 100
57 0.0 0.0 0.0

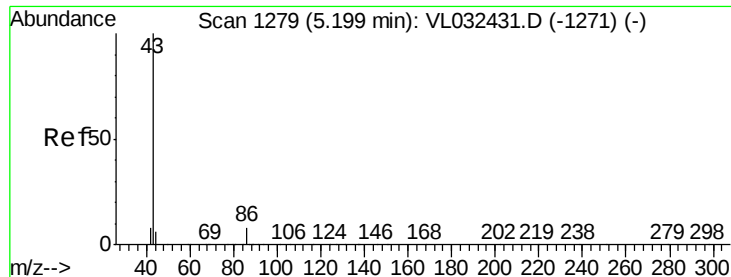


#20

Methylene Chloride
Concen: 0.777 ppbv
RT: 4.44 min Scan# 468
Delta R.T. -0.01 min
Lab File: VL032502.D
Acq: 11 Sep 2018 11:04

Tgt Ion: 84 Resp: 36410
Ion Ratio Lower Upper
84 100
49 145.2 119.1 178.7
51 48.0 35.2 52.8
86 70.1 49.4 74.2





#23

Vinyl Acetate

Concen: 8.999 ppbv

RT: 5.36 min Scan# 754

Delta R.T. 0.16 min

Lab File: VL032502.D

Acq: 11 Sep 2018 11:04

Instrument :

MSVOA_L

ClientSampleId :

253-BERRYDL

Tgt Ion: 43 Resp: 1833345

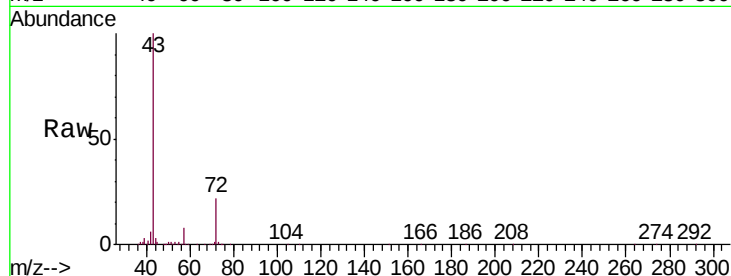
Ion Ratio Lower Upper

43 100

86 0.0 5.9 8.9#

42 6.3 6.9 10.3#

44 2.4 4.6 7.0#

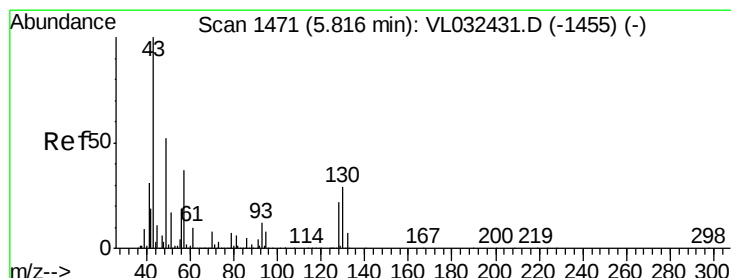
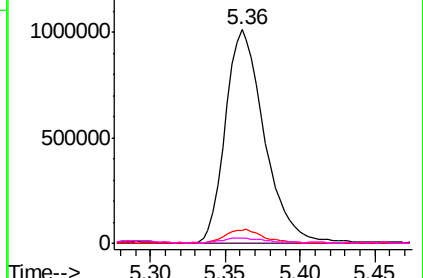
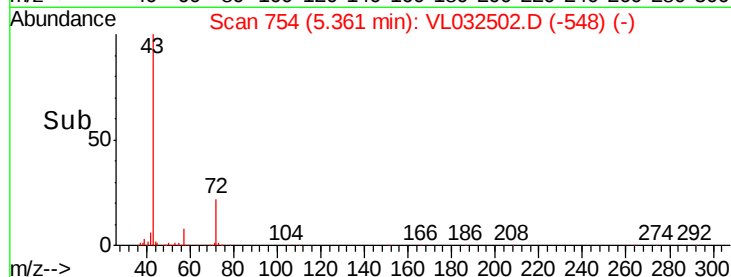


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 6.317 ppbv

RT: 5.36 min Scan# 754

Delta R.T. -0.46 min

Lab File: VL032502.D

Acq: 11 Sep 2018 11:04

Tgt Ion: 43 Resp: 1833345

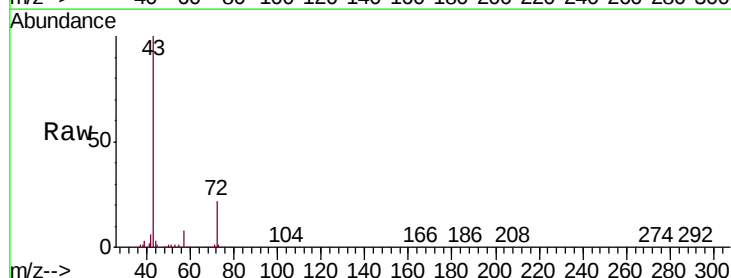
Ion Ratio Lower Upper

43 100

45 0.7 8.0 12.0#

61 0.0 7.6 11.4#

70 0.1 5.8 8.8#

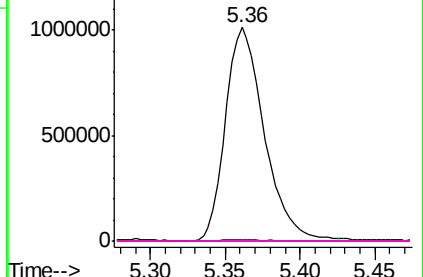
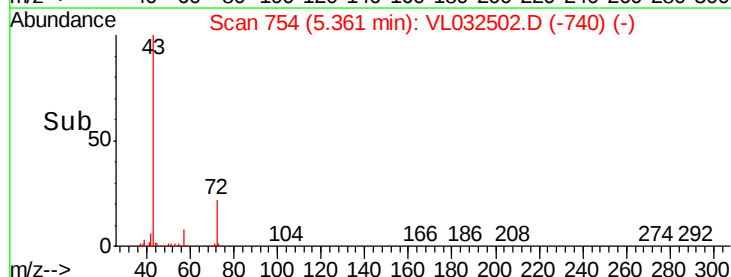


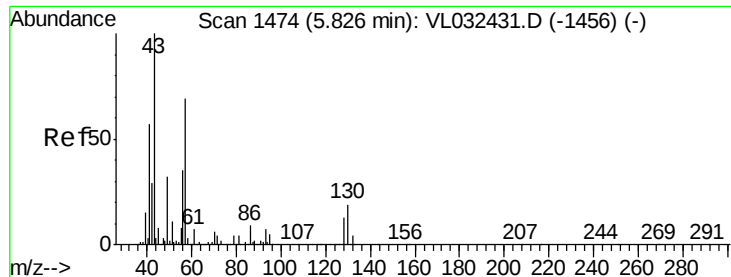
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

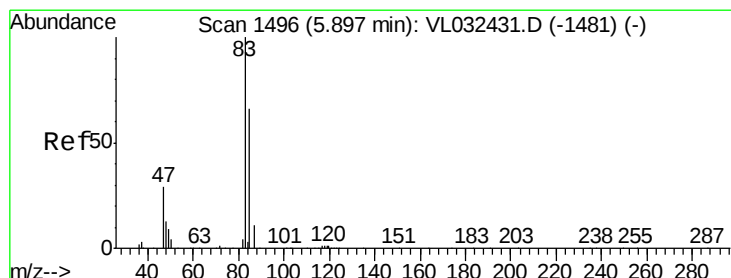
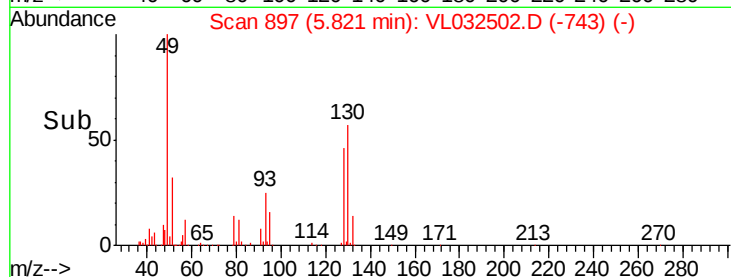
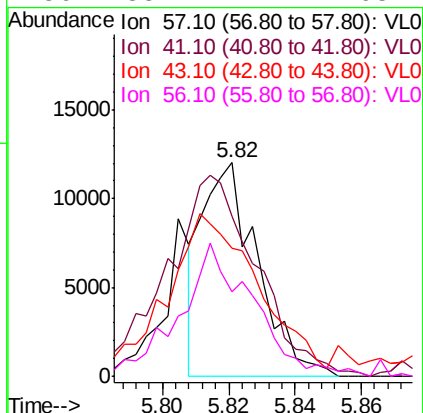
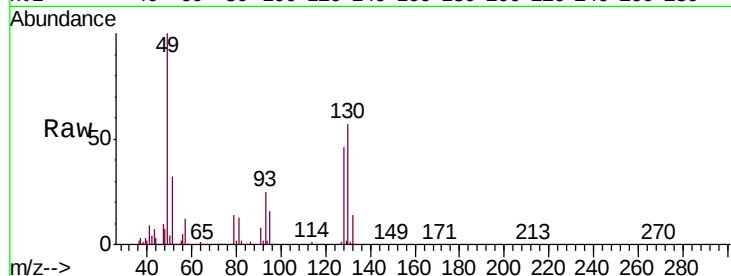




#26
Hexane
Concen: 0.107 ppbv
RT: 5.82 min Scan# 897
Delta R.T. -0.01 min
Lab File: VL032502.D
Acq: 11 Sep 2018 11:04

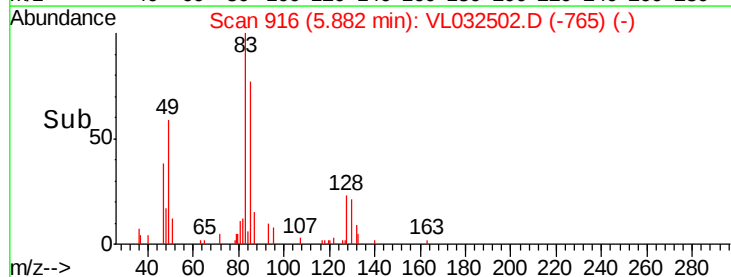
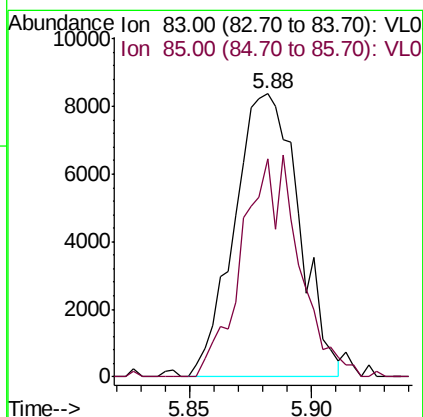
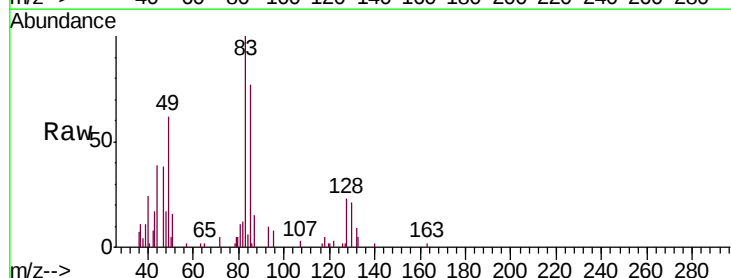
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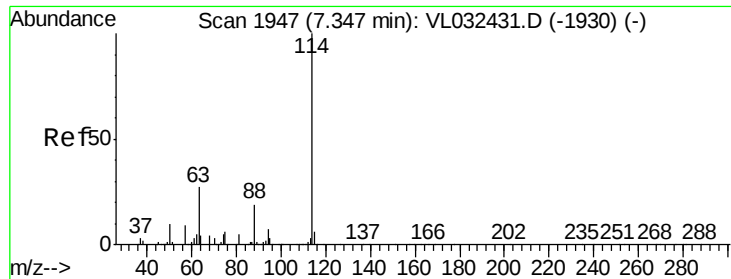
Tgt Ion: 57 Resp: 13841
Ion Ratio Lower Upper
57 100
41 157.1 69.0 103.4#
43 0.0 172.1 258.1#
56 85.7 42.2 63.2#



#29
Chloroform
Concen: 0.078 ppbv
RT: 5.88 min Scan# 916
Delta R.T. -0.01 min
Lab File: VL032502.D
Acq: 11 Sep 2018 11:04

Tgt Ion: 83 Resp: 15386
Ion Ratio Lower Upper
83 100
85 77.0 52.5 78.7

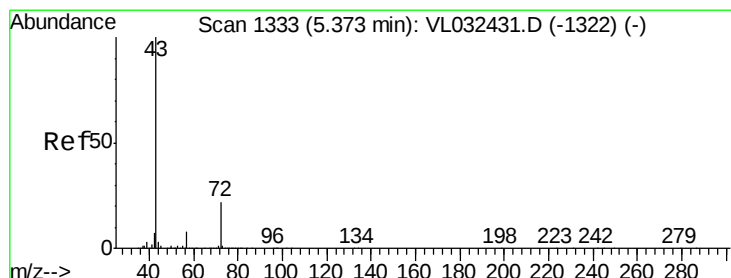
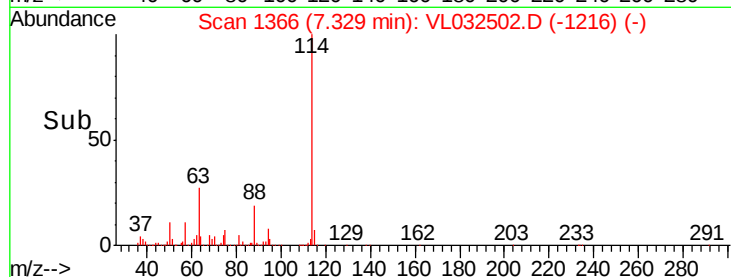
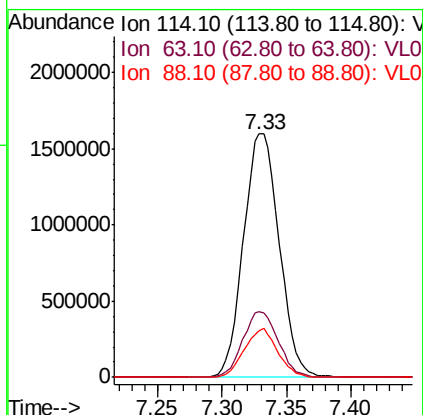
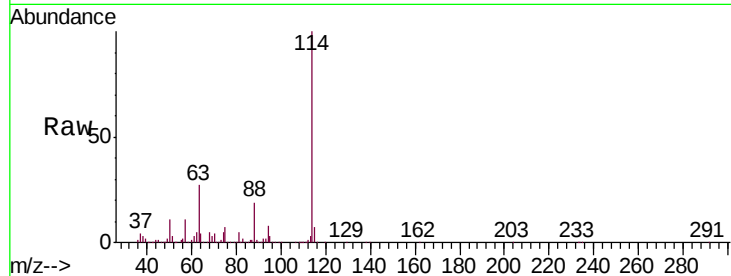




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.33 min Scan# 1366
 Delta R.T. -0.02 min
 Lab File: VL032502.D
 Acq: 11 Sep 2018 11:04

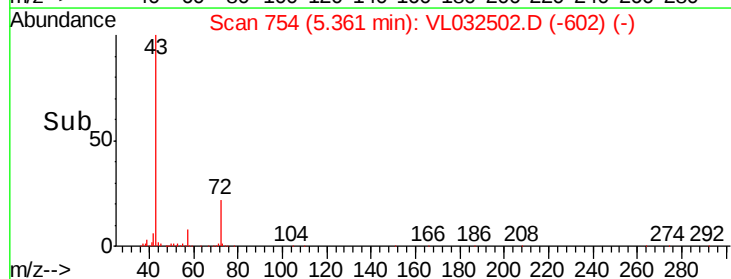
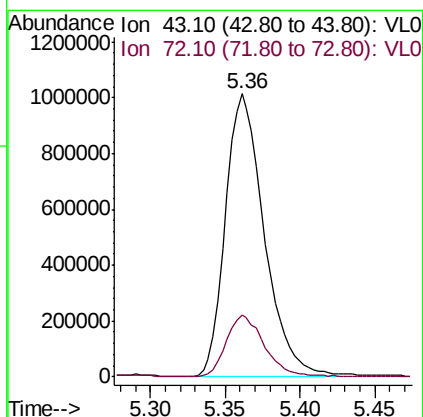
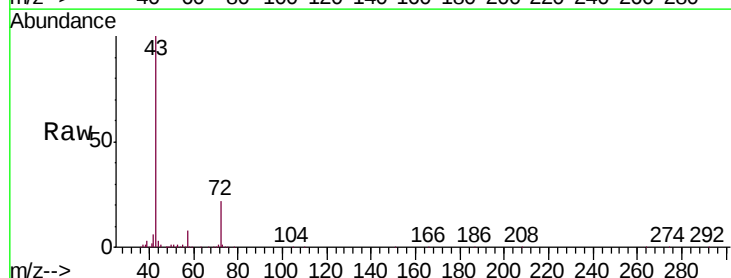
Instrument :
 MSVOA_L
 ClientSampleId :
 253-BERRYDL

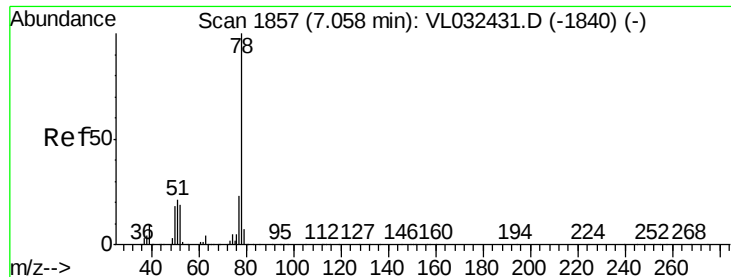
Tgt Ion: 114 Resp: 3082142
 Ion Ratio Lower Upper
 114 100
 63 26.8 22.2 33.4
 88 18.9 15.0 22.4



#34
 2-Butanone
 Concen: 8.955 ppbv
 RT: 5.36 min Scan# 754
 Delta R.T. -0.01 min
 Lab File: VL032502.D
 Acq: 11 Sep 2018 11:04

Tgt Ion: 43 Resp: 1833345
 Ion Ratio Lower Upper
 43 100
 72 21.9 17.8 26.6





#36

Benzene

Concen: 0.057 ppbv

RT: 7.04 min Scan# 1277

Delta R.T. -0.01 min

Lab File: VL032502.D

Acq: 11 Sep 2018 11:04

Instrument :

MSVOA_L

ClientSampleId :

253-BERRYDL

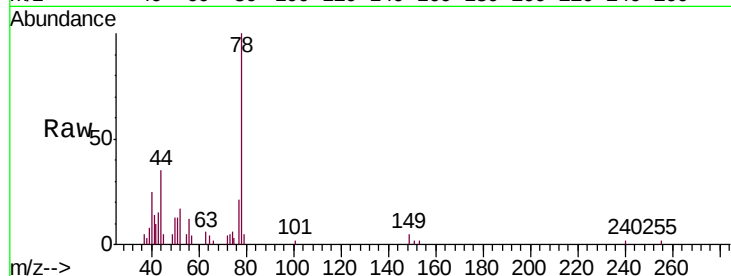
Tgt Ion: 78 Resp: 15029

Ion Ratio Lower Upper

78 100

77 20.8 18.4 27.6

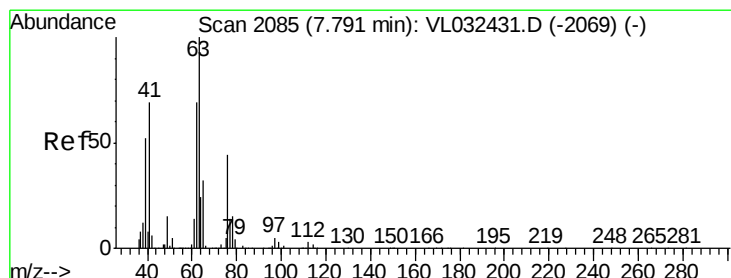
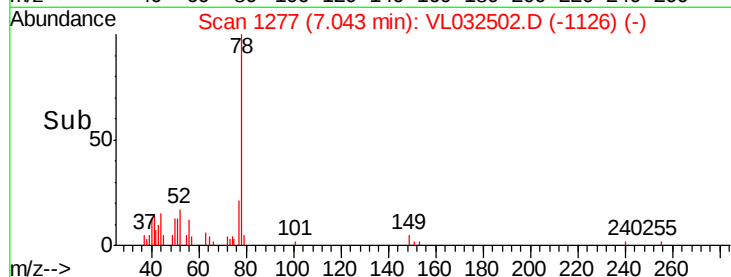
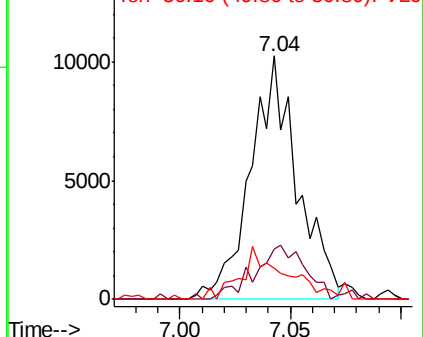
50 12.7 14.4 21.6#



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#39

1,2-Dichloropropane

Concen: 7.344 ppbv

RT: 7.33 min Scan# 1366

Delta R.T. -0.46 min

Lab File: VL032502.D

Acq: 11 Sep 2018 11:04

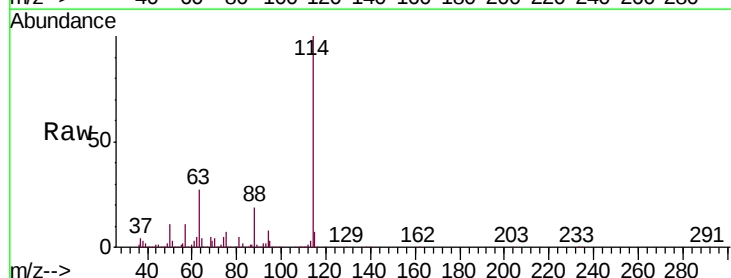
Tgt Ion: 63 Resp: 824160

Ion Ratio Lower Upper

63 100

41 0.3 55.4 83.0#

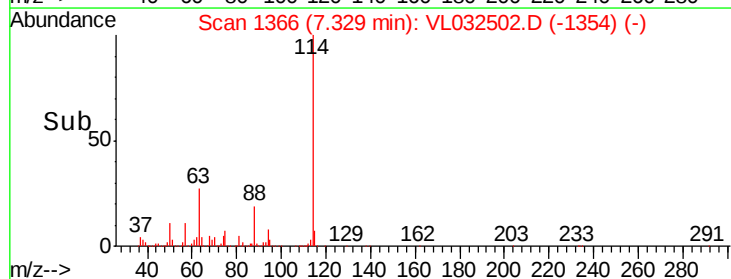
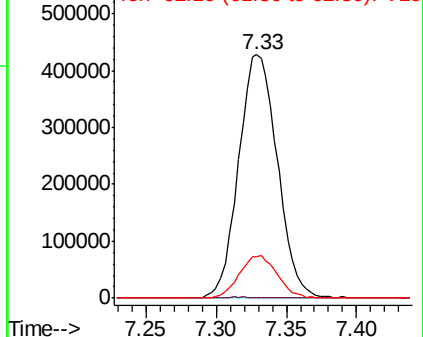
62 16.8 55.4 83.0#

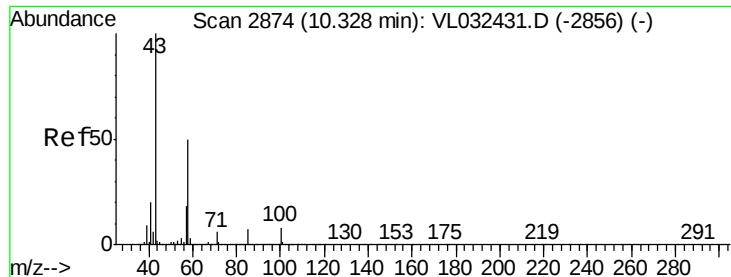


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

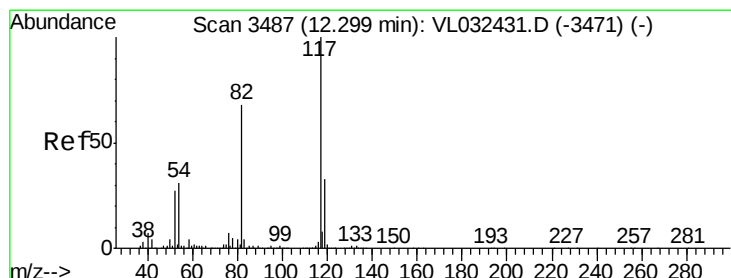
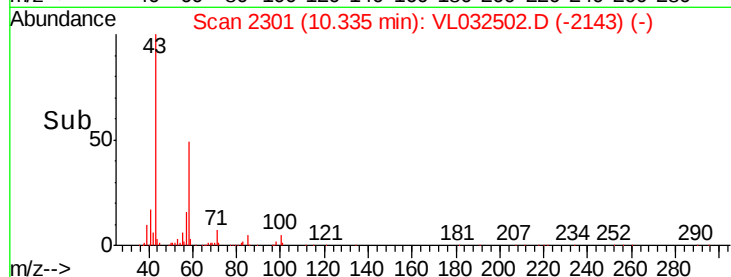
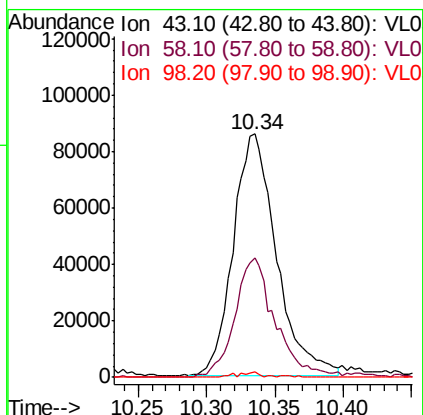
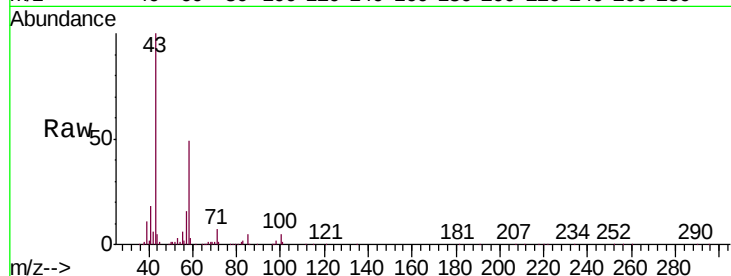




#51
 2-Hexanone
 Concen: 0.950 ppbv
 RT: 10.34 min Scan# 2301
 Delta R.T. 0.01 min
 Lab File: VL032502.D
 Acq: 11 Sep 2018 11:04

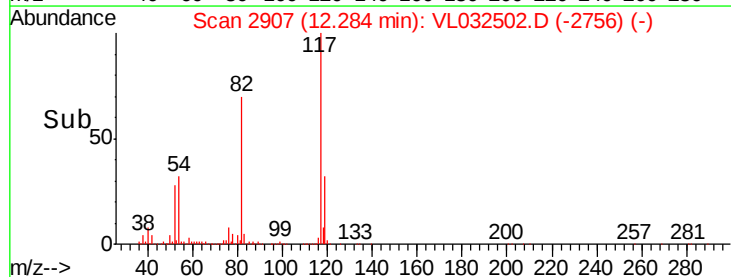
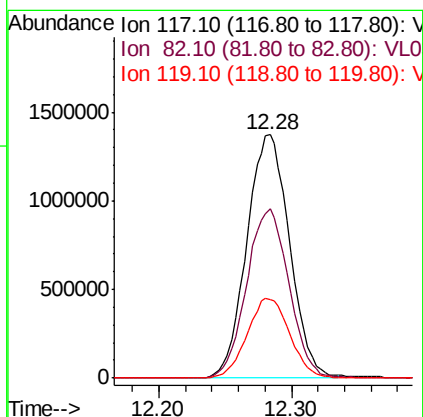
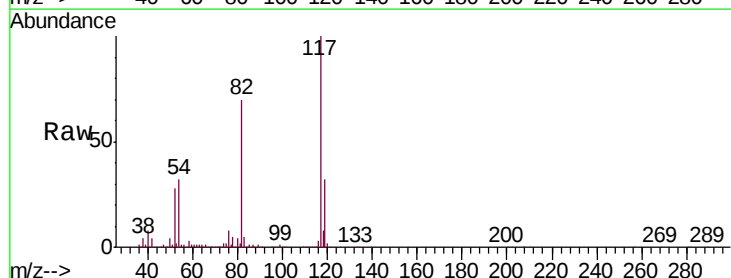
Instrument :
 MSVOA_L
 ClientSampleId :
 253-BERRYDL

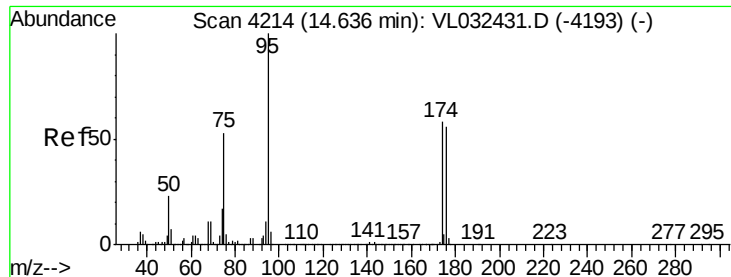
Tgt Ion: 43 Resp: 188632
 Ion Ratio Lower Upper
 43 100
 58 47.2 39.2 58.8
 98 1.5 0.4 0.6#



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.28 min Scan# 2907
 Delta R.T. -0.01 min
 Lab File: VL032502.D
 Acq: 11 Sep 2018 11:04

Tgt Ion: 117 Resp: 3082485
 Ion Ratio Lower Upper
 117 100
 82 69.1 53.0 79.6
 119 32.9 45.9 68.9#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.630 ppbv
 RT: 14.62 min Scan# 3633
 Delta R.T. -0.02 min
 Lab File: VL032502.D
 Acq: 11 Sep 2018 11:04

Instrument :
 MSVOA_L
 ClientSampleId :
 253-BERRYDL

Tgt Ion: 95 Resp: 2432684
 Ion Ratio Lower Upper
 95 100
 174 57.6 46.3 69.5
 175 4.2 3.4 5.0

